

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/FR2004/002655

<b>A. CLASSIFICATION OF SUBJECT MATTER</b> IPC 7 A47J37/07		
According to International Patent Classification (IPC) or to both national classification and IPC		
<b>B. FIELDS SEARCHED</b> Minimum documentation searched (classification system followed by classification symbols) IPC 7 A47J		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the International search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data, PAJ		
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 747 781 A (PATENAUE JEAN-PIERRE) 31 May 1988 (1988-05-31) column 2, line 57 - column 6, line 65; figures 2,3a,4	1,2,4-6, 8-10
X	US 6 230 700 B1 (DANIELS DALE T ET AL) 15 May 2001 (2001-05-15) column 3, line 9 - column 7, line 29 column 5, lines 31-50; figures 1,5	1,2,4
X	US 3 159 119 A (JACOBY HARRY D ET AL) 1 December 1964 (1964-12-01) column 1, line 63 - column 3, line 18; figures	1,2,4,9
A	FR 2 282 250 A (CHANTEAU ROGER) 19 March 1976 (1976-03-19) page 2, line 16 - page 4, line 33; figures	1-14
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<input checked="" type="checkbox"/> Further documents are listed in the continuation of box C. <span style="margin-left: 100px;"><input checked="" type="checkbox"/> Patent family members are listed in annex.</span>		
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>* Special categories of cited documents:</p> <p>*A* document defining the general state of the art which is not considered to be of particular relevance</p> <p>*E* earlier document but published on or after the international filing date</p> <p>*L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</p> <p>*O* document referring to an oral disclosure, use, exhibition or other means</p> <p>*P* document published prior to the international filing date but later than the priority date claimed</p> </div> <div style="width: 45%;"> <p>*T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</p> <p>*X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</p> <p>*Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.</p> <p>*&amp;* document member of the same patent family</p> </div> </div>		
Date of the actual completion of the international search  <div style="text-align: center; font-weight: bold;">20 January 2005</div>		Date of mailing of the international search report  <div style="text-align: center; font-weight: bold;">08/02/2005</div>
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016		Authorized officer  <div style="text-align: center; font-weight: bold;">De Terlizzi, M</div>

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 168 860 A (KIBOURIAN GABRIEL) 8 December 1992 (1992-12-08) column 2, line 36 - column 4, line 30; figures 2,3 -----	1-14
A	FR 2 404 418 A (BERTHEUX GERARD) 27 April 1979 (1979-04-27) page 2, line 17 - page 5, line 20; figures -----	1-14
A	DE 299 07 243 U (MUEHLBICHLER KARL) 4 November 1999 (1999-11-04) the whole document -----	1,4
A	US 3 982 522 A (HOTTENROTH FRED W ET AL) 28 September 1976 (1976-09-28) column 2, line 8 - column 5, line 10; figures 1,45 -----	7,8

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 4747781	A	31-05-1988	CA US	1215282 A1 4924847 A
				16-12-1986 15-05-1990
US 6230700	B1	15-05-2001	NONE	
US 3159119	A	01-12-1964	NONE	
FR 2282250	A	19-03-1976	FR BE	2282250 A1 852152 A1
				19-03-1976 01-07-1977
US 5168860	A	08-12-1992	NONE	
FR 2404418	A	27-04-1979	FR	2404418 A1
				27-04-1979
DE 29907243	U	04-11-1999	DE DE	29907243 U1 19926945 A1
				04-11-1999 26-10-2000
US 3982522	A	28-09-1976	NONE	